

STIC EIC 2100 Search Request Form

100

Today's Date: April 23, 2007 What date would you like to use to limit the search?
Priority Date: 11/22/04 Other: _____

Name <u>Susan Raylan</u>	Format for Search Results (Circle One): <u>PAPER</u> DISK EMAIL
AU <u>2167</u> Examiner # <u>77889</u>	Where have you searched so far?
Room # <u>3C-05</u> Phone <u>X1675</u>	<u>USP</u> <u>DWPI</u> <u>EPO</u> <u>JPO</u> ACM IBM TDB
Serial # <u>10/762,700</u>	IEEE INSPEC SPI Other _____

Is this a "Fast & Focused" Search Request? (Circle One) YES NO
A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Is this request for a BOARD of APPEALS case? (Circle One) YES NO

Is this case a SPECIAL CASE? (Circle One) YES NO

Title: Process for distributed production and p-to-p consolidation of subjective ratings across ad hoc networks.

Pat Inventor: Patrick Adams Barry et al

Assignment: I3M

See cl. 1: A device for collecting ratings on a plurality of subjects

① Receive 1st set of ratings device: ex. PDA

② receive 2nd set ratings from a transaction subjects: ex. restaurant

③ update ratings by merging ooo (see claim) ratings are weighted

search for collaborative filtering *

- user rates things (restaurants)
- weight those ratings more heavily if user is similar to you

similarity factor weight ranking

see specification

STIC Searcher Ruth Spink Phone 2-3524
Date picked up 4/23/07 Date Completed 4/23/07

Set	Items	Description
S1	406803	S PDA OR PDAS OR PERSONAL()DIGITAL()ASSISTANT? ? OR HANDHELD? ? OR HAND()HELD? ? OR PALM OR PALMTOP? ? OR PALMPILOT? ? OR POCKET()PC? ? OR PSP OR BLACKBERRY? ? OR BLACKBERRIES OR LAPTOP? ? OR NOTEBOOK? ? OR THINKPAD? ? OR TRIO OR TRIOS OR TREO OR TREOS OR PIT OR PAGER? ? OR PERSONAL()DEVICE? ? OR HANDSPRING? ? OR NEWTON? ? OR PEN(3W)(COMPUTER? ? OR DEVICE? ?) OR CELLPHONE? ? OR MOBILEPHONE? ? OR SMARTPHONE? ? OR (CELL OR MOBILE OR SMART)()PHONE? ?
S2	1358340	S WIRELESS OR WI()FI OR WIFI OR 802()11 OR AIRPORT OR PORTABLE? ? OR MOBILE? ? OR REMOTE OR REMOTELY OR AD()HOC OR MANET OR GSM OR GROUPE()SPECIAL()MOBILE OR BLUETOOTH OR GLOBAL()SYSTEM()FOR()MOBILE()COMMUNICATION? ? OR CDMA OR 1XRTT OR EV()DO OR EVOLUTION()DATA()ONLY OR WIMAX OR WORLD()INTEROPERABILITY(2W)MICROWAVE()ACCESS OR BWA
S3	2994475	S RANK?? OR RANKING OR GRADE? ? OR GRADING OR SCORE? ? OR SCORING OR RATE? ? OR RATED OR RATING? ? OR WEIGHT??? OR SCALE? ? OR SCALING OR EVALUATE? ? OR EVALUATING OR EVALUATION? ? OR RECOMMEND????
S4	984	S COLLABORATIVE()FILTERING OR RECOMMENDATION()SYSTEM? ?
S5	34	S SEMANTIC() (TREE OR TREES)
S6	119322	S S3 (5N) (MERGE? ? OR MERGING OR COMBINE? ? OR COMBINING OR COMBINATION? ? OR COLLECT???? OR AGGREGATE? ? OR AGGREGATING OR AGGREGATION? ? OR CONSOLIDATE? ? OR CONSOLIDATING OR CONSOLIDATION? ?)
S7	2	S (S1 OR S2) (30N) S6 (30N) S4
S8	32	S (S1 OR S2) (30N) S3 (30N) S4
S9	20	S S8 AND IC=G06F
S10	20	IDPAT (sorted in duplicate/non-duplicate order)
S11	20	IDPAT (primary/non-duplicate records only)
S12	18	S S11 AND AY=1963:2004
S13	18	S S12 NOT S7

; show files

[File 348] **EUROPEAN PATENTS 1978-2007/ 200715**

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**File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] **PCT FULLTEXT 1979-2007/UB=20070412UT=20070305**

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**File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 350] **Derwent WPIX 1963-2007/UD=200725**

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**File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit <http://www.dialog.com/dwpi/>.*

13/5K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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02034889

An individually personalized customized report document system

Ein einzeln personifiziertes kundengebundenes Reportdokumentsystem

Un systeme de rapport individuellement personnalise sur mesure

Patent Assignee:

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	Country	Number	Kind	Date	
Patent	EP	1638026	A1	20060322	(Basic)
Application	EP	2005255226		20050825	
Priorities	US	929979		20040830	

Designated States:

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LI; LT;
LU; LV; MC; NL; PL; PT; RO; SE; SI; SK;

TR;

Extended Designated States:

AL; BA; HR; MK; YU;

IPC	Level	Value	Position	Status	Version	Action	Source	Office
G06F-0017/30	A	I	F	B	20060101	20060202	H	EP
G06F-0017/30	A	I	F	B	20060101	20060202	H	EP

Abstract EP 1638026 A1

A system and methodology is provided herein employing automated search, filtering, and automated document layout technologies conjoined with various delivery options to provide an end-to-end information push service. As such, it enables complete personalized custom report documents to be automatically created, thereby reducing cost in existing personalized document workflows, as well as enabling documents to be created that increase consumer satisfaction and knowledge worker productivity. One example deployment manifestation of the teachings provided yields a personal newspaper embodiment.

Abstract Word Count: 79

NOTE: 2

NOTE: Figure number on first page: 2

Type	Pub. Date	Kind	Text
Application:	20060322	A1	Published application with search report
Change:	20061102	A1	Title of invention (German) changed: 20061102
Change:	20061102	A1	Title of invention (English) changed: 20061102
Change:	20061102	A1	Title of invention (French) changed: 20061102
Change:	20061122	A1	Title of invention (German) changed: 20061122
Change:	20061122	A1	Title of invention (English) changed: 20061122
Change:	20061122	A1	Title of invention (French) changed: 20061122
Change:	20061129	A1	Title of invention (German) changed: 20061129
Change:	20061129	A1	Title of invention (English) changed: 20061129
Change:	20061129	A1	Title of invention (French) changed: 20061129

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200612	265
SPEC A	(English)	200612	2733
Total Word Count (Document A) 2998			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 2998			

Specification: ...the user. The collaborative filtering system will keep the list of documents that the user submitted to his communities as well as his appreciation (the **score**) which he gave to the reviewed documents. The

knowledge-sharing tool will store the bookmarks for the user. The information gathered by the collaborative filtering system and the knowledge-sharing tool can then be used to deduce the interests of the user. Based on the documents and their **score** and possibly other available information, we can extract APEs for each **collaborative filtering** system community the user is active in, and also for the set of documents bookmarked through knowledge-sharing tool. For example, let's say that the user reviewed documents in French and English for the community "**Handhelds**". The result then will be two APEs in the user's profile for the community "**Handhelds**". One APE extracting the information of interest for the French documents and another for those that are in English.

The content filtering module 430 is...

13/5K/2 (Item 2 from file: 348) [Links](#)

EUROPEAN PATENTS

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02029765

An individually personalized customized report document system with user feedback

Ein einzeln personifiziertes kundengebundenes Reportdokumentsystem mit Benutzerrückkoppelung

Un système de rapport individuellement personnalisé sur mesure avec une boucle de retour

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(Applicant designated States: all)

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	Country	Number	Kind	Date	
Patent	EP	1630703	A1	20060301	(Basic)
Application	EP	2005255225		20050825	
Priorities	US	929980		20040830	

Designated States:

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LI; LT;
LU; LV; MC; NL; PL; PT; RO; SE; SI; SK;

TR;

Extended Designated States:

AL; BA; HR; MK; YU;

IPC	Level	Value	Position	Status	Version	Action	Source	Office
G06F-0017/30	A	I	F	B	20060101	20051128	H	EP
G06F-0017/30	A	I	F	B	20060101	20051128	H	EP

Abstract EP 1630703 A1

A system and methodology is provided herein employing automated search, filtering, and automated document layout technologies conjoined with various delivery options to provide an end-to-end information push service. As such, it enables complete personalized custom report documents to be automatically created, thereby reducing cost in existing personalized document workflows, as well as enabling documents to be created that increase consumer satisfaction and knowledge worker productivity. The user satisfaction and productivity is enhanced by tracking the user's actual usage of the report document and feeding that usage back into the user profile. One example deployment manifestation of the teachings provided yields a personal newspaper embodiment which monitors the user usage and provides feedback of that usage to the system methodology thus dynamically altering any subsequently delivered custom report documents.

Abstract Word Count: 129

NOTE: 2

NOTE: Figure number on first page: 2

Type	Pub. Date	Kind	Text
Application:	20060301	A1	Published application with search report
Change:	20061018	A1	Title of invention (German) changed: 20061018
Change:	20061018	A1	Title of invention (English) changed: 20061018
Change:	20061018	A1	Title of invention (French) changed: 20061018
Change:	20061108	A1	Title of invention (German) changed: 20061108
Change:	20061108	A1	Title of invention (English) changed: 20061108
Change:	20061108	A1	Title of invention (French) changed: 20061108

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200609	356
SPEC A	(English)	200609	3064
Total Word Count (Document A) 3420			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 3420			

Specification: ...the user. The collaborative filtering system will keep the list of documents that the user submitted to his communities as well as his appreciation (the **score**) which he gave to the reviewed documents. The

knowledge-sharing tool will store the bookmarks for the user. The information gathered by the collaborative filtering system and the knowledge-sharing tool can then be used to deduce the interests of the user. Based on the documents and their **score** and possibly other available information, we can extract APEs for each **collaborative filtering** system community the user is active in, and also for the set of documents bookmarked through knowledge-sharing tool. For example, let's say that the user reviewed documents in French and English for the community "**Handhelds**". The result then will be two APEs in the user's profile for the community "**Handhelds**". One APE extracting the information of interest for the French documents and another for those that are in English.

The content filtering module 430 is...

13/5K/3 (Item 3 from file: 348) [Links](#)

EUROPEAN PATENTS

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01435795

Recommender system and method

Empfehlungssystem und -verfahren

Système et méthode de recommandation

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	Country	Number	Kind	Date	
Patent	EP	1217554	A2	20020626	(Basic)
	EP	1217554	A3	20031126	
Application	EP	2001310564		20011218	
Priorities	US	746917		20001222	

Designated States:

DE; FR; GB;

Extended Designated States:

AL; LT; LV; MK; RO; SI;

International Patent Class (V7): G06F-017/30; G06F-017/30Abstract EP 1217554 A2

A system for providing item recommendations includes a memory (40), a device (10), responsive to a user request, for recording an item on a hardcopy medium, and a processor (12), for storing ratings of items and for generating recommendations for new items based on recommendation criteria. In response to the user request, the processor (12) stores an implicit rating for the requested item in the memory (40), determines whether, based on the implicit rating and the recommendation criteria, to generate an item recommendation, and if the criteria for generating a

recommendation is met, generates a recommendation of a new item. The recommender system may further store a representation of the recorded item in the memory. Recommendations may be based on item to item similarities, item to user similarities or user to user similarities.

Abstract Word Count: 134

NOTE: 1

NOTE: Figure number on first page: 1

Type	Pub. Date	Kind	Text
Application:	20020626	A2	Published application without search report
Change:	20020807	A2	Inventor information changed: 20020620
Search Report:	20031126	A3	Separate publication of the search report
Examination:	20040728	A2	Date of request for examination: 20040526
Examination:	20040915	A2	Date of dispatch of the first examination report: 20040803

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200226	913
SPEC A	(English)	200226	6391
Total Word Count (Document A) 7304			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 7304			

Specification: ...will be provided. When in work group mode, the recommendation system adds an implicit positive rating of the document to the user's profile. The **recommender** system may be set up with many different recommendation criteria. For example, the work group may establish a recommendation criteria which requires the **recommender** system to extract the context from the transmitted print job and information on the user as well as on the document, either on-line or off-line. The **recommendation system** may also store a representation of the document in a repository (either local or **remote**); this representation being possibly the document itself or a set of attributes (title, references, and other metadata about the document) along with, for example, a...

13/5K/4 (Item 4 from file: 348) [Links](#)

EUROPEAN PATENTS

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01228293

System and method for using noisy collaborative filtering to rank and present items

System und Verfahren zum Verwenden einer kollaborativen rauschbehafteten Filtertechnik zum Reihens und Prasentieren von Artikeln

Systeme et methode pour utiliser un filtrage collaboratif avec parasites pour classer et presenter des articles

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	Country	Number	Kind	Date	
Patent	EP	1065616	A2	20010103	(Basic)
	EP	1065616	A3	20020918	
Application	EP	2000305362		20000626	
Priorities	US	343118		19990629	

Designated States:

DE; FR; GB;

Extended Designated States:

AL; LT; LV; MK; RO; SI;

International Patent Class (V7): G06F-017/60; G06F-017/30; G06F-017/60... ..G06F-017/30Abstract EP 1065616 A2

A system and method of providing predicted user ratings includes calculating the accuracy of predictions based on the variance of distribution of the predicted user's rating. The system and method present and rank the results by treating the variance as a source of noise. The decision to present or not to present an item is made by sampling the probability distribution of the predicted rating and comparing the result to some user-set threshold (e.g., "show me all results that the system predicts I will score 3 or higher") or a system default value.

Abstract Word Count: 94

NOTE: 1

NOTE: Figure number on first page: 1

Type	Pub. Date	Kind	Text
Application:	20010103	A2	Published application without search report
Search Report:	20020918	A3	Separate publication of the search report
Examination:	20030514	A2	Date of request for examination: 20030318
Examination:	20030618	A2	Date of dispatch of the first examination report: 20030502

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200101	750
SPEC A	(English)	200101	4076
Total Word Count (Document A) 4826			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 4826			

Specification: ...rating and its respective correlation coefficient divided by the sum of the correlation coefficients. The processor also calculates the variance of the predicted user's **rating**, where the variance of the predicted user's **rating** is a function of the variance of the correlation coefficients and the variance of the **ratings**. The variance of the predicted user's **rating** gives the user a range of the accuracy of the prediction.

The **collaborative filtering** system according to the invention can be implemented in one of many ways. For example, the system can be implemented in software operated by a network server. Users may access the server through a **remote** work station and input their requests. The server may be part of an Intranet or Internet network. Users may also provide **ratings** to the system which are stored in memory and may be used to update the correlation coefficients, as well as the variance calculations.

The variance...

13/5K/7 (Item 3 from file: 349) [Links](#)

PCT FULLTEXT

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01327395

APPARATUS AND METHOD FOR RECOMMENDING THE SPOT OR THE AZIT IN THE REGIONAL COMMUNITY SYSTEM BASED ON MOBILE BLOG THROUGH THE MOBILE TERMINAL
PROCEDE ET APPAREIL DE RECOMMANDATION D'UN SPOT OU AZIT DANS LE SYSTEME COMMUNAUTAIRE REGIONAL BASE SUR UN MOBICARNET PAR L'INTERMEDIAIRE D'UN TERMINAL MOBILE

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	Country	Number	Kind	Date
Patent	WO	200609385	A1	20060126
Application	WO	2005KR2329		20050719
Priorities	KR	1020040056212		20040720

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;
IS; JP; KE; KG; KM; KP; KZ; LC; LK; LR;
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;
MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH;
PL; PT; RO; RU; SC; SD; SE; SG; SK; SL;
SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG;
US; UZ; VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/00	Main
G06F-017/00	Main

Publication Language: English

Filing Language: Korean

Fulltext word count: 11798

English Abstract:

Disclosed is a location-based community service provision system for setting a plurality of main arenas by dividing a geographical area in a regional unit, setting and storing one or more virtual spatial locations, the one or more virtual spatial locations being a projection of real spatial public locations, as spots in one of the main arenas, receiving information on posts registered in spots transmitted through a mobile terminal by providing one or more pieces of information on the spots belonging to the main arena from information on a location of the **mobile** terminal to the **mobile** terminal, and storing the received information on posts with a link with the spots. An apparatus for **recommending** a spot or an azit in a moblog-based regional community system using a mobile terminal, includes a **recommendation system** for executing a recommendation algorithm to **recommend** azits, spots, friends or neighbors for each user; a level system for setting and managing a level for each azit and spot according to a preset rule; and a link evaluator for performing an evaluation on each link and managing a result of the evaluation.

English Abstract:

...mobile terminal by providing one or more pieces of information on the spots belonging to the main arena from information on a location of the **mobile** terminal to the **mobile** terminal, and storing the received information on posts with a link with the spots. An apparatus for **recommending** a spot or an azit in a moblog-based regional community system using a mobile terminal, includes a **recommendation system** for executing a recommendation algorithm to **recommend** azits, spots, friends or neighbors for each user; a level system for setting and managing a level for each azit and spot according to a...

French Abstract:

L'invention porte sur un système fournissant des services communautaires basés sur un emplacement de façon à établir une pluralité d'arènes principales en divisant une zone géographique en une unité régionale, établir et stocker un ou plusieurs emplacements spatiaux virtuels qui sont une projection des emplacements publics spatiaux réels tels

que des spots dans l'une des arenes principales; recevoir des informations sur des postes enregistres dans les spots transmis par un terminal mobile en envoyant au terminal mobile un ou plusieurs elements d'information sur les spots appartenant a l'arene principale et provenant des informations relatives a un emplacement du terminal mobile ; et stocker des informations recues sur les postes ayant un lien avec les spots. L'invention porte egalement sur un appareil de recommandation d'un spot ou azit dans un systeme communautaire regional a base de mobicarnets de facon a executer un algorithme de recommandations pour recommander des azits, des spots, des amis ou des voisins pour chaque utilisateur; un systeme de niveau pour ajuster et gerer un niveau pour chaque azit et spot conformement a une regle preetablie, et un evalueur de lien permettant d'effectuer une evaluation sur chaque lien et de gerer un resultat de l'evaluation.

Type	Pub. Date	Kind	Text
Publication	20060126	A1	With international search report.
Examination	20060420		Request for preliminary examination prior to end of 19th month from priority date

Detailed Description:

...a projection of real spatial public locations,
as spots in one of the main arenas, receiving information on posts
registered in spots transmitted through a **mobile** terminal by

3

providing one or more pieces of information on the spots belonging
to the main arena from information on a location of the **mobile**
terminal to the **mobile** terminal, and storing the received
information on posts with a link with the spots. The apparatus
includes a **recommendation system** for executing a recommendation
algorithm to **recommend** azits, spots, friends or neighbors f or each
user; a level system for setting and managing a level for each
azit and spot according to a preset rule; and a link evaluator
for performing an **evaluation** on each link and managing a result
of the evaluation.

According to another aspect, the present invention provides
a method for recording a spot or an azit in a mobile-based regional
community system using a... various information generated and
provided by the performance of the present invention can be
configured on a screen in such a manner adapted to wired/**wireless**
environments.

18

On the other hand, the recommendation algorithm module 440
performs a function of executing a recommendation algorithm to
recommend azits, spot, posts and the like to the users. For example,
the recommendation algorithm module 440 may include a
recommendation system 441, a level (**rank**) system 442, and a link
evaluator 443.

The **recommendation system** 441 executes a recommendation

algorithm to **recommend** azits . spots,, friends or neighbors for each user. The level system 442 performs a function of setting and managing a level for each azit and...

Claims:

...by providing one or more pieces of information on the spots belonging to the main arena from information on a location of the **mobile** terminal to the **mobile** terminal, and storing the received information on posts with a link with the spots, an apparatus for **recommending** a spot or an azit in a moblog-based regional community system using a **mobile** terminal,, comprising: a **recommendation system** for executing a predetermined recommendation algorithm to **recommend** azits, spots, friends or neighbors for each user; a level system for setting and managing a level for each azit and spot according to a preset rule; and a link evaluator for performing an **evaluation** on each link and managing a result of the **evaluation**.

2 The apparatus according to claim 1, wherein the recommendation system includes: 47 a link measuring unit for measuring a relationship including user information..

13/5K/9 (Item 5 from file: 349) [Links](#)

PCT FULLTEXT

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00982599

**A RETRIEVAL SYSTEM AND METHOD BASED ON A SIMILARITY AND RELATIVE DIVERSITY
SYSTEME ET PROCEDE DE TRAITEMENT DE DONNEES**

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(Designated only for: US)

Patent Applicant/Inventor:

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Legal Representative:

- **BROPHY David(et al)(agent)**
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	Country	Number	Kind	Date
Patent	WO	200312684	A2-A3	20030213
Application	WO	2002IE113		20020730
Priorities	IE	2001724		20010730

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
SE; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/30	Main
G06F-017/30	Main
G06F-017/60	
G06F-017/60	

Publication Language: English

Filing Language: English

Fulltext word count: 9229

English Abstract:

A data processing method and system for retrieving a subset of k items from a database of n items ($n \gg k$) firstly determines a limited set of b items ($b > 1$) in the database which have the greatest similarity to an input query t according to a given similarity function S . A result subset is then constructed by including as a first member the item having the greatest similarity S to the query t , and iteratively selecting each successive member of the subset as that remaining item of the b items having the highest quality Q , where Q is a given function of both similarity to the input query t and relative diversity RD with respect to the items already in the results subset. In this way the diversity of the results subset is greatly increased relative to a simple selection of the k most similar items to the query t , with only a modest additional increase in processing requirements.

French Abstract:

La presente invention concerne un procede et un systeme de traitement de donnees permettant de localiser un sous ensemble de k articles a partir d'une base de donnees de n articles ($n \gg k$). Ce procede consiste d'abord a determiner un ensemble limite de b articles ($b > 1$) dans la base de donnees qui ont la plus grande similitude avec une demande entree t compte tenu d'une fonction de similitude S donnee. Un sous ensemble de resultat est ensuite elabore par l'inclusion de l'article possedant la plus grande similitude S avec la demande t comme premier element, et par la selection iterative de chaque element successif de ce sous ensemble possedant la qualite Q la plus haute parmi les b articles restant. Q est une fonction donnee de similitude avec la demande entree t et de diversite relative RD par rapport aux articles deja selectionnes dans le sous ensemble de resultats. La diversite de ce sous ensemble de resultats est ainsi largement amelioree par rapport a celle d'une simple selection des k articles les plus similaires a la demande t , avec uniquement une modeste augmentation des exigences de traitement.

Type	Pub. Date	Kind	Text
Publication	20030213	A2	Without international search report and to be republished upon receipt of that report.
Search Rpt	20040212		Late publication of international search report
Republication	20040212	A3	With international search report.

Detailed Description:

...automated

collaborative filtering, that are less susceptible to the diversity problem. For example, PTV (a personalized television listings guide) operates in the TV listings domain, **recommending** TV programmes to users based on their learned viewing

preferences. PTV combines case-based recommendation with **collaborative**

filtering in order to help guarantee that each user is delivered a diverse set of recommendations, rather than **recommending** only science fiction programmes to users known to be science fiction devotees.

1 0 New developments in the area of **mobile** information access further highlight the need for **recommender** systems that attempt to optimise both similarity and diversity. Current **mobile** computing devices such as personal digital assistants (PDAs) and Wireless Application Protocol (WAP) enabled mobile phones have a screen size that is a fraction of...may simply be a page of links 22 which can be clicked on to retrieve the job details 16a- I 6d from the Diversity Enhanced **Recommender** 12 or the database 18.

As mentioned above, the present invention is particularly useful in applications 0 such as **recommendation systems** designed for use on WAP-enabled **mobile phones**. Because of the limited capabilities of these devices, such as reduced screen sizes and restricted input options, a standard, similarity-driven case-based **recommender** would not succeed because of the limited diversity of the recommendation results. For instance, a typical interaction might see a user with 5 an interest...

13/5K/10 (Item 6 from file: 349) [Links](#)

PCT FULLTEXT

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00898514

AUDIO SYSTEM WITH VARIABLE RANDOM-PLAY OPTION

SYSTEME AUDIO A OPTION DE LECTURE ALEATOIRE VARIABLE

Patent Applicant/Patent Assignee:

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Legal Representative:

- **SCHOENMAKER Maarten(agent)**
Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven; NL;

	Country	Number	Kind	Date
Patent	WO	200231828	A2-A3	20020418
Application	WO	2001EP11169		20010926
Priorities	US	2000685554		20001010

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

Main International Patent Classes (Version 7):

IPC	Level
G11B-027/00	Main
G11B-019/02	
G06F-017/30	
G06F-017/60	
G07F-017/30	
... G06F-017/30 G06F-017/60	

Publication Language: English

Filing Language: English

Fulltext word count: 2220

English Abstract:

A video or audio play-back apparatus has a variable random play option to control a degree of randomness of the selections made from a play list.

French Abstract:

Un appareil de lecture video ou audio dispose d'une fonction de lecture aleatoire variable permettant de commander un degre de stochasticite des selections effectuees a partir d'une liste de lecture.

Type	Pub. Date	Kind	Text
Publication	20020418	A2	Without international search report and to be republished upon receipt of that report.
Search Rpt	20021010		Late publication of international search report
Republication	20021010	A3	With international search report.
Republication	20021010	A3	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Detailed Description:

...is selected other music categorized as "classical" can be inserted randomly as similar. If system 100 is implemented as a client-server architecture with a **remote** server on the Internet, system 100 has access to data bases that have been generated by **collaborative filtering**. These data bases comprise personal recommendations generated by determining a degree of similarity between a user's preferences and that of other people. See, e.g., U.S. patent 5,884,282, herein incorporated by reference. This document relates to an automated **collaborative filtering** system for **recommending** at least one item to a first user based on similarity in preference of the user as compared with other users. The filtering system stores **rating** data for items provided by users of the system. Upon request of the first user, the system determines similarity values for the first user as...

13/5K/11 (Item 7 from file: 349) [Links](#)

PCT FULLTEXT

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00877773

SYSTEM AND METHOD FOR OBTAINING USER PREFERENCES AND PROVIDING USER RECOMMENDATIONS FOR UNSEEN PHYSICAL AND INFORMATION GOODS AND SERVICES
SYSTEME ET PROCEDE PERMETTANT D'OBTENIR LES PREFERENCES DE L'UTILISATEUR ET DE FOURNIR A CELUI-CI DES RECOMMANDATIONS RELATIVES AUX BIENS ET SERVICES PHYSIQUES ET D'INFORMATIONS INCONNUS

Patent Applicant/Patent Assignee:

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US; US(Residence); US(Nationality)
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(Designated only for: US)
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(Designated only for: US)

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(Designated only for: US)
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Legal Representative:

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Morrison & Foerster LLP, 2000 Pennsylvania Avenue, N.W., Washington, DC 20006-1888; US;

	Country	Number	Kind	Date
Patent	WO	200210984	A2	20020207
Application	WO	2001US23040		20010723
Priorities	US	2000219678		20000721

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/30	Main
G06F-017/30	Main

Publication Language: English

Filing Language: English

Fulltext word count: 7309

English Abstract:

French Abstract:

Type	Pub. Date	Kind	Text
Publication	20020207	A2	With declaration under Article 17(2)(a); without abstract; title not checked by the International Searching Authority.
Examination	20030109		Request for preliminary examination prior to end of 19th month from priority date

Detailed Description:

...the search criteria and the actions taken by the user in response to the result list.

In P4 (Update Model), the system updates the similarity **weights** between users that are used during the **collaborative filtering** process described above to predicts the user's interest in unvisited attributes.

In an alternative embodiment, illustrated in exemplary Figure 9, the present invention incorporates a position-based information filtering process and can be adapted for use with **wireless** client applications. In PO (P-filtering) of this embodiment, the input space (the space containing all items to be searched, initially comprising, for example, all.

13/5K/13 (Item 9 from file: 349) [Links](#)

PCT FULLTEXT

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00799892

**CUSTOMER DEMAND-INITIATED SYSTEM AND METHOD FOR ON-LINE INFORMATION
RETRIEVAL, INTERACTIVE NEGOTIATION, PROCUREMENT, AND EXCHANGE**

**SYSTEME LANCE SUR DEMANDE DU CLIENT ET PROCEDE POUR LA RECHERCHE D'INFORMATIONS
EN LIGNE, LA NEGOTIATION INTERACTIVE, L'ACQUISITION, ET L'ECHANGE**

Patent Applicant/Inventor:

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Legal Representative:

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	Country	Number	Kind	Date
Patent	WO	200133464	A1	20010510
Application	WO	2000US30249		20001101
Priorities	US	99162932		19991101

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/60	Main
G06F-017/60	Main

Publication Language: English

Filing Language: English

Fulltext word count: 34629

English Abstract:

A method and system are described for automated electronic-commerce procurement of services, products or bundles. The method provides a demand-based, information-specific negotiation process. Customers can initiate bidding with selected sellers in the system in a multivariate format based on numerous factors. Detailed information on services and products is available for the customer in order to make informed petitions. The system consists of four main modules: registration (1000), information (2000), procurement (3000), and transaction and post-sale processing (8000).

French Abstract:

L'invention concerne un procede et un systeme de commerce electronique fournisseur de services, de produits ou de liasses automatise. Le procede fournit sur demande un systeme de negociation d'informations specifiques. Les clients peuvent commencer a faire des offres d'achat aux vendeurs selectionnes dans le systeme dans un format a plusieurs variables fondees sur plusieurs facteurs. Des informations detaillees concernant des services et des produits sont disponibles pour les clients aux fins de creation des requetes informees. Le systeme comprend quatre modules principaux : l'enregistrement (1000), l'information (2000), l'acquisition (3000), et la transaction, ainsi que le traitement apres-vente (8000).

Type	Pub. Date	Kind	Text
Publication	20010510	A1	With international search report.
Publication	20010510	A1	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
Examination	20010907		Request for preliminary examination prior to end of 19th month from priority date

Detailed Description:

...being illustrated in the figure. Figure 19g 1 5 illustrates a posting of several vendor reviews of Pacific Bell on a one- to four-star **rating** system. Finally, Figure 20b illustrates a comparison chart for **wireless** services, illustrating features ...several vendors.

Using intelligent software agents, the system searches the knowledge base (2250) to match the user's request with system-accessible products and services. **Collaborative filtering** techniques are also used at 2260 as an engine W compile recommendations. The techniques used include (a) profile-based, (b) quality-based, (c) quantity-based...

13/5K/14 (Item 10 from file: 349) [Links](#)

PCT FULLTEXT

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00799882

SHARED SHOPPING BASKET MANAGEMENT SYSTEM
SYSTEME DE GESTION D'UN PANIER A COURSES COMMUN

Patent Applicant/Patent Assignee:

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Legal Representative:

- **SAMPSON Richard L(et al)(agent)**
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	Country	Number	Kind	Date
Patent	WO	200133453	A1	20010510
Application	WO	2000US29050		20001019
Priorities	US	99145528		19991104
	US	99145271		19991201
	US	2000183138		20000217
	US	2000185806		20000229
	US	2000627017		20000727

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/60	Main
G06F-017/60	Main

Publication Language: English

Filing Language: English
Fulltext word count: 15837

English Abstract:

A computer implemented method is provided for conducting business-to-business electronic commerce over the Internet. The method includes the step of providing a website that enables electronic communication with users, and including on the website an electronic shopping basket (22) which is selectively actuatable into various states (44, 41, 30). An additional step includes enabling two or more remote users to simulate access to the shopping basket (22). Each of the users is assigned one or more hierarchically distinct abilities to affect the state (44, 41, 30) of the shopping basket (22), so that the users are permitted to simultaneously view the status of the shopping basket and sequentially affect the state (44, 41, 30) of the shopping basket (22). This enables various actions in the purchasing process to be accomplished by various individuals. These abilities to affect the state (44, 41, 30) of the basket (22) may also include providing the users with various selected levels of access to the basket (22), i.e., to prevent unauthorized purchases. Notification of any change of the state (44, 41, 30) of the shopping basket (22) is automatically sent to all of the users by affecting a display of the shopping basket (22) on the website.

French Abstract:

Procede mis en oeuvre sur ordinateur permettant de realiser du commerce electronique inter-entreprises sur l'Internet. Le procede consiste a utiliser un site Web qui assure la communication avec des utilisateurs et qui comprend sur le site Web lui-meme un panier a courses electronique (22) lequel peut etre selectivement active sous forme d'etats differents (44, 41, 30). Une etape supplementaire consiste a autoriser au moins deux utilisateurs eloignes a acceder simultanement au panier a courses (22). A chaque utilisateur est attribuee au moins une faculte hierarchiquement distincte de modifier l'etat (44, 41, 30) du panier a courses (22), ceci permettant a tous les utilisateurs de voir simultanement l'etat du panier a courses et modifier l'etat (44, 41, 30) de ce dernier (22). Ceci permet a plusieurs personnes d'accomplir differentes actions durant le processus d'achat. Ces facultes permettant de modifier l'etat (44, 41, 30) du panier a courses (22) peuvent egalement comprendre l'attribution aux utilisateurs de divers niveaux d'acces selectionnes au panier a courses (22), par exemple pour empecher des achats non autorises. La notification relative a tout changement de l'etat (44,41, 30) du panier a courses (22) est automatiquement envoyee a tous les utilisateurs et la presentation a l'ecran du panier a courses (22) sur le site Web est modifiee.

Type	Pub. Date	Kind	Text
Publication	20010510	A1	With international search report.

Detailed Description:

...descriptions (i.e., fields) as an aid to searching in unfamiliar territory. For

4 2

example, if the visitor entered CP 30 the search may **recommend** Control Processor 30 or if the user entered **Remote** Workstation the search may suggest **Mobile** Workstation or simply list all the workstation types for the user to choose from. Well-known **collaborative filtering** technology, (see, for example, the GroupLenSTm Research Project in the Department of Computer Science and Engineering at the University of Minnesota, <http://www.cs.umn.edu>...

13/5/15 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0015572408 *Drawing available*

WPI Acc no: 2006-136569/200614

XRPX Acc No: N2006-118233

Spot or azit recommending apparatus for mobile blog-based regional community system has link evaluator that evaluates each link to manage result of evaluation

Patent Assignee: SK COMMUNICATIONS CORP (SKCO-N)

Inventor: AHN J H; AN C; CHUNG U C; GO Y K; IM C H; IM H J; KIM J; KIM J H; KIM S J; KWON H J; LEE Y I; PARK K Y; SEO J W; SHIM S W; WON D H

Patent Family (2 patents, 109 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2006009385	A1	20060126	WO 2005KR2329	A	20050719	200614	B
KR 2006008471	A	20060127	KR 200456212	A	20040720	200659	E

Priority Applications (no., kind, date): KR 200456212 A 20040720

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 2006009385	A1	EN	71	22	
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KP KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW				
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				

Alerting Abstract WO A1

NOVELTY - A link evaluator evaluates each link to manage the result of the evaluation. A level system sets and manages the level for each azit and spot according to a preset hole. A recommendation system executes a predetermined recommendation algorithm to recommend azits, spots friends or neighbors for each user.

DESCRIPTION - An INDEPENDENT CLAIM is included for a spot or azit recommending method.

USE - For mobile blog-based regional community system by using mobile terminal.

ADVANTAGE - Expands human network by on-line or off-line meeting through short message service (SMS) or multimedia message service (MMS). Improves sharing of information between users of mobile blog service. Ensures effective recommendation of targets of message delivery.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of a mobile blog-based regional community service system.

300 Mobile terminal
310 Wireless network termination apparatus
340 Wired terminal

Title Terms /Index Terms/Additional Words: SPOT; APPARATUS; MOBILE; BASED; REGION; COMMUNAL;
SYSTEM; LINK; EVALUATE; MANAGE; RESULT

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/00			Main		"Version 7"
G06F-0017/00	A	I	F	B	20060101

File Segment: EPI;
DWPI Class: W01
Manual Codes (EPI/S-X): W01-B05A1A; W01-C02B7D; W01-C02B7F; W01-C05B5

13/5/16 (Item 2 from file: 350) [Links](#)

Derwent WPIX

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0013529599 *Drawing available*

WPI Acc no: 2003-623005/200359

XRPX Acc No: N2003-496516

Content recommendation system for mobile telephone, selects content to be recommended to user, based on priority of user attribute and content attribute

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU)

Inventor: NAITO E; OZAWA

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2003233622	A	20030822	JP 200234940	A	20020213	200359	B

Priority Applications (no., kind, date): JP 200234940 A 20020213

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2003233622	A	JA	8	12	

Alerting Abstract JP A

NOVELTY - A database (102) stores attribute of content e.g. movies to be recommended to user. A pair of databases (103,104) stores priority of user attribute and content attribute respectively. A determination unit (105) determines search conditions for selecting the content, based on the priority. An output unit outputs the selected content to the user.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. content recommendation apparatus;
2. content recommendation method;
3. program for performing content recommendation; and
4. computer recorded medium storing program for performing content recommendation.

USE - For recommending content such as movies, news, publications, songs to be displayed in user's mobile telephone, personal computer.

ADVANTAGE - Since search conditions for selecting the content to be recommended, is based on user's preference, the burden of processing for recommending content to the user, is relieved.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the content recommendation apparatus. (Drawing includes non-English language text).

102-104 databases

105 determination unit

106 selection unit

115 input-output unit

Title Terms /Index Terms/Additional Words: CONTENT; SYSTEM; MOBILE; TELEPHONE; SELECT; RECOMMENDED; USER; BASED; PRIORITY; ATTRIBUTE

Class Codes

International Patent Classification					
IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/30			Main		"Version 7"
G06F-017/60; H04Q-007/20			Secondary		"Version 7"

File Segment: EPI;
DWPI Class: T01; W01
Manual Codes (EPI/S-X): T01-J05B; T01-S03; W01-B05

13/5/17 (Item 3 from file: 350) [Links](#)

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0012830903 *Drawing available*

WPI Acc no: 2002-688980/200274

Wire/wireless customized recommendation system for cooperation store and discount information of membership card

Patent Assignee: IBIZLAB CORP (IBIZ-N)

Inventor: CHOI U I; LEE B C; LEE C T; MUN J Y

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
KR 2002038665	A	20020523	KR 200223871	A	20020430	200274	B

Priority Applications (no., kind, date): KR 200223871 A 20020430

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
KR 2002038665	A	KO	1	10	

Alerting Abstract KR A

NOVELTY - A wire/wireless customized **recommendation system** for a cooperation store and the discount information of a membership card is provided to remove the time and the inconvenient factor by providing the **recommend** information for the customized cooperation store corresponding to the registered membership card on the basis of the user's position information to a user through a wire/ **wireless** terminal.

DESCRIPTION - A host system(250) comprises a server(251), a subscriber information database(252) and a membership cooperation information database(253) storing the membership cooperation relationship information and the store information, and respectively connects to a PC terminal(200) of the user and a wireless terminal(210) through a wireless Internet gateway(235) and a TCP/IP network(220). The user connects to the server through the wire/wireless Internet by using the PC or wireless terminal and requests the recommendation information after selecting a store category to visit. The host system searches the membership card registration information and the information stored in the membership cooperation information database, and generates and recommends the cooperation store capable of effectively using the membership card.

Title Terms /Index Terms/Additional Words: WIRE; WIRELESS; CUSTOMISATION; SYSTEM; COOPERATE; STORAGE; DISCOUNT; INFORMATION; MEMBER; CARD

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-019/00			Main		"Version 7"

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-J

13/5/18 (Item 4 from file: 350) [Links](#)

Derwent WPIX

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0012714065 *Drawing available*

WPI Acc no: 2002-565753/200260

XRPX Acc No: N2002-447842

Wireless product recommendation method for online purchasing, involves enabling user to evaluate wireless product alternatives by comparing product attributes of wireless product alternatives

Patent Assignee: FULLER M H (FULL-I); KEENEY R L (KEEN-I); LEMA C (LEMA-I)

Inventor: FULLER M H; KEENEY R L; LEMA C

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020065721	A1	20020530	US 2000178464	P	20000127	200260	B
			US 2001769315	A	20010126		
			US 2001970801	A	20011005		

Priority Applications (no., kind, date): US 2001769315 A 20010126; US 2000178464 P 20000127; US 2001970801 A 20011005

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20020065721	A1	EN	26	12	Related to Provisional	US 2000178464
					Continuation of application	US 2001769315

Alerting Abstract US A1

NOVELTY - The user's objectives for a wireless product are obtained by interacting with the user. User's objectives are mapped to a corresponding set of product attributes using a set of rules. The wireless product alternatives having mapped product attributes are selected. The user is enabled to evaluate wireless product alternatives by comparing product attributes of the wireless product alternatives.

DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

1. Wireless product **recommendation** system;
2. **User interface**; and
3. Wireless product alternatives comparison method.

USE - For recommending a wireless product to user during online **purchasing**.

ADVANTAGE - Enables the user to select optimal product by enabling user to compare product attributes of wireless product alternatives.

DESCRIPTION OF DRAWINGS - The figure shows the flowchart explaining wireless product recommendation process.

Title Terms /Index Terms/Additional Words: WIRELESS; PRODUCT; METHOD; PURCHASE; ENABLE;

USER; EVALUATE; ALTERNATIVE; COMPARE; ATTRIBUTE

Class Codes

International Patent Classification					
IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/60			Main		"Version 7"

US Classification, Issued: 705014000 .

File Segment: EPI;

DWPI Class: T01; T05; W01

Manual Codes (EPI/S-X): T01-N01A1; T01-N01A2A; T05-L02; W01-C05B3C